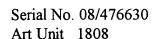


UNITED STAT DEPARTMENT OF COMMERCE Patent and Tracemark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington D.C. 20231

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	APPLIC	ATION NUMBER	FILIN	IG DATE		FIRST NAME	D APPLICANT		ATTY, DOCKET NO.
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		communication SIONER OF PA				our application.			·
OFFICE ACTION SUMMARY									
75/2	Respons	ive to commu	nication/	s) filed on		6/18/9	7 7		
مك		on is FINAL.	, noanon	a) med on		41201			
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 D.C. 11; 453 O.G. 213.									
A shortened statutory period for response to this action is set to expire									
whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR									
1.136	6(a).						•	•	
-		of Claims							
DX (Claim(s)		45	-87	<u> </u>			is/are pendir	ng in the application.
	Of the ab Claim(s)	ove, claim(s)						_is/are withdrawn	from consideration.
P	Claim(s)		45-	89					is/are allowed. is/are rejected.
	Claim(s)							is/	are objected to.
						<u> </u>	are subjec	t to restriction or	election requirement.
Appli	ication F	apers							
				tsperson's	Patent D	rawing Review, PTO			
_		ing(s) filed or osed drawing		n filed on			_is/are objected to by	_	
		ification is ob						is approved	disapproved.
ד 🗀	he oath	or declaratior	n is objec	ted to by t	he Examir	er.			
Priori	ity unde	r 35 U.S.C. §	119						
Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).									
☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been									
Е	recei	ved.							
		ved in Applica							
· L	recei	ved in this na	tional sta	ge applica	ition from t	he International Bu	reau (PCT Rule 17.2(a)).	
*C	ertified c	opies not rec	eived:						
A	cknowle	dgment is ma	ide of a c	laim for do	omestic pri	ority under 35 U.S.	C. § 119(e).		
Attachment(s)									
	lotice of	Reference Cit	ted, PTO	-892		•			
_:					-1449, Pai	per No(s)	•		
,		Summary, PT			, -1	*/* <u></u>			
		Draftperson's		rawing Re	eview, PTC)-948			
		nformal Pate							•

-- SEE OFFICE ACTION ON THE FOLLOWING PAGES--

PTOL-326 (Rev. 9/96)



The amendment filed July 30, 1997 is acknowledged. Claims 45-49 are being considered on the merits.

The rejection regarding double patenting is <u>withdrawn</u> in view of the proper terminal disclaimer provided.

Claims 45-46 are/remain rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

No basis or support is found in the as filed written disclosure for the use of 200 μ g of β -hydroxypropionaldehyde per gram of food item to reduce the number of bacteria at least 10^3 fold in a food item for animals...

No clear basis or support is found for a multi-log factor decrease in the number of any non-Lactobacillus reuteri bacteria in any substrate or any anaerobic environment merely if a 10-fold less than the number of bacteria present of L. reuteri is added and a stated concentration of glycerol or glyceraldehyde precursor is present. Moreover, the selection process for "a bacterial strain" raises the issue of new matter.

Applicants' arguments have been fully considered but they are not deemed to be persuasive.

It is noted that 100 units is equivalent to 200 μg β -glyceraldehyde. However, it is unclear that the results of page 20 pertain to the reduction of any and all bacteria in 3-6 days in the manner claimed. The results presented pertain to "indigenous population of bacteria" in ground

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meat stored at 4°C. In any case, no basis or support is found for the open ended "at least 10³fold".

Therefore the rejection is deemed proper and it is adhered to.

Claims 45-49 are/remain rejected under 35 U.S.C. § 112, first and second paragraphs, as the claimed invention is not described in such full, clear, concise and exact terms as to enable any person skilled in the art to make and use the same, and/or for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 45 is vague and indefinite in that the antecedent basis for "said cells" is unclear in this context. Anaerobic storage encompasses food vacuum packed in a can or package, lyophilized items, frozen items, etc.. The scope of the claim cannot be assessed from the context presented.

Claim 47 is confusing, since it is unclear what the treatment is intended to be. There are "adding" steps. However it is unclear where this material is to be "added", i.e., it is unclear where the treatment is to take place. Is "adding" a sufficient "treatment" for non-Lactobacillus reuteri bacteria" or is "contacting" required?. A culturing step appears to be missing. Is this an in vitro or an *in vivo* process? How is the determination of the number of bacteria in the composition to be treated or in the body carried out? How long is the treatment intended to be carried out? Growth and proliferation of bacteria takes time. However, a growth or incubation step is not included and a time frame not disclosed. Applicants have not provided an enabling disclosure for the treatment of any and all pathogenic bacteria that are non-Lactobacillus reuteri in any

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organism, including humans. As indicated in the last Office action, if an in vitro process is intended, this material should be clearly claim designated.

Claim 46 is vague and indefinite in that the phrase "A method for reducing the number of bacteria in a food item for animals" is not informative as to the material intended. The distinction in numbers reduced as compared with the control is also not understood. The terminology is ambiguous and open to interpretation. The nature of the bacteria to be reduced is unclear from the present context.

Applicants' arguments have been fully considered but they are not deemed to be persuasive.

Regarding the Casas declaration, this declaration appears to be directed to specific animals, while the claims are not so limited. It is still unclear that a sufficient enabling disclosure is provided for the number of microorganism cells required to colonize the gastrointestinal tract of insects and protozoa, for example, or that the required glycerol or glyceraldehyde concentration will be available for the production of β -hydroxypropionaldehyde. The results presented in the specification and in the papers cited in the Response pertain to specific animals. The papers cited are not in conformity with MPEP 609. They were considered to the extent that they are discussed in applicants' arguments. In particular, results pertaining to glycerol human blood serum and in the GI tract are noted (Response, page 10). However this is not pertinent to all animals as claimed. Are specific animals, such as mammals intended?

Therefore the rejection is deemed proper and it is adhered to.

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Claims 45-49 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 45 is vague and indefinite in the recitation of "significantly", It is unclear what the metes and bounds of "significantly" are in this context; the term "significantly" is ambiguous and open to interpretation. The nature of the bacteria to be reduced is unclear from the present context.

Claim 47 is vague and indefinite in that it requires selecting a bacterial strain which produces β-hydroxypropionaldehyde without identifying the species and later pertains to "said L. reuteri". The phrase "said L. reuteri" fails to find proper antecedent basis in the claim. It is recommended that in item (b), the phrase be amended to read --selecting an L. reuteri bacterial strain which produces...--.

In claim 48 it is recommended that --said selected-- be added before "L. reuteri" at line 4 to clarify the strain fed to the animal. It is also suggested that --as a probiotic-- be added at line 4, to clarify the correlation between the preamble directed to "providing a probiotic" and colonization of the gastrointestinal tract.

Claim 49 is vague and indefinite in that in claim 48 glycerol or glyceraldehyde are already present in the gastrointestinal tract. Thus, in claim 48 the required amount may already be present and claim 49 fails to further limit claim 48.

Therefore the rejection is deemed proper and it is adhered to.

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No claim is allowed.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for response to this final action is set to expire THREE MONTHS from the date of this action. In the event a first response is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event will the statutory period for response expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Irene Marx whose telephone number is (703) 308-2922.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Papers related to this application may be submitted to Group 1800 by facsimile transmission. Papers should be faxed to Group 1800 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The CM1 Fax Center number is (703) 308-0294.

Irene Marx

Primary Examiner

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